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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

ZHANG et al.

Atty. Ref.: 839-1546

Serial No. 10/813,131

TC/A.U.: unknown

Filed: March 31, 2004

Examiner: Unknown

For: COUNTER-BORED FILM-COOLING HOLES

* * * * *

May 20, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

SUBMISSION OF EXCLUSIVE SUBSTITUTE POWER OF ATTORNEY

Attached is the originally executed Exclusive Substitute Power of Attorney for the
above-identified application.

Respectfully submitted,

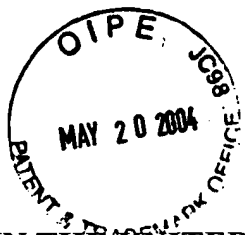
NIXON & VANDERHYE P.C.

By:

Michael J. Keenan

Reg. No. 32,106

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* * * * *

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

**EXCLUSIVE SUBSTITUTE POWER OF ATTORNEY
AND EXCLUSIVE PROSECUTION HEREAFTER BY
ASSIGNEE UNDER 37 C.F.R. §§ 1.36, 3.71 AND 3.73**

The undersigned being the owner of all right, title and interest in the above-identified patent application, hereby revokes all previous powers of attorney in this case, if any, and hereby appoints the attorneys of **Customer Number 30024** individually and collectively its attorneys to prosecute this application and to transact all business in the Patent and Trademark Office in connection therewith, and with the resulting patent.

I also authorize Nixon & Vanderhye to act and rely solely on instructions communicated from the person, attorney, firm or other organization sending instructions to Nixon & Vanderhye on behalf of the owner.

Certificate Under 37 C.F.R. §3.73(b)

I hereby certify that General Electric Company of 1 River Road, Schenectady, NY 12345 is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors to the aforesaid assignee, a copy of the assignment being attached.

I have reviewed the documents in the chain of title of the patent application identified above, and to the best of my knowledge and belief, title is in the aforesaid assignee for which I am empowered to act in this matter.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

GENERAL ELECTRIC COMPANY

May 14, 2004 By: Ernest G. Cusick
Date Name:
Title: Patent Counsel

ASSIGNMENT

In accordance with obligations entered into pursuant to an Employee Innovation and Proprietary Information Agreement or other agreement and/or for other good and valuable consideration of which we acknowledge receipt, we, Xiuzhang James Zhang, Mark Gerard Duer and Doyle Clyde Lewis, of 21 Redglobe, Simpsonville, South Carolina 29681; 6 Summer Hill Road, Simpsonville, South Carolina 29681; 444 Riverway Drive, Greer, South Carolina 29651; hereby sell and assign to General Electric Company, a New York Corporation, having an address at 1 River Road, Schenectady, New York 12345, USA, (hereinafter referred to as "Company"), its successors and assigns our entire respective right(s), title(s) and interest(s) in and to the invention and improvements invented and originated by us and described in the application for United States Patent currently entitled COUNTER-BORED FILM-COOLING HOLES and 140513

- ☒ signed as of even date,
☐ signed as of _____, or
☐ filed on _____ having Serial Number _____

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, reexaminations and reissues thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Company, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Company, we will communicate to said Company or its representatives or nominees any facts known to us respecting said inventions and improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.

Xiuzhang James Zhang 3/25/2004

 Date

Witnessed by:

Name: Tonia Palmer Date: 3-25-04

 Signature of witness

Name: Tonia Palmer

 Printed name of witness

Name: Kim Stevens Date: 3/25/04

 Signature of witness

Kim Stevens

 Printed name of witness

STATE OF SC

ss):

COUNTY OF Greenville

This 25th day of March, 2004, before me personally came the above-named, Xiuzhang James Zhang, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Mary N. Bryan

 Notary Public

My Commission Expires: _____

My Commission Expires
 April 24, 2010

Mark Gerard Duer
Mark Gerard Duer

3/25/2004
Date

Witnessed by:

Name:

Calvaria Hitchens

Signature of witness

Calvaria Hitchens

Printed name of witness

Date:

3/25/04

Name:

Kim Stevens

Signature of witness

Kim Stevens

Printed name of witness

Date:

3/25/04

STATE OF SC

ss):

COUNTY OF Greenville

This 25th day of March, 2004, before me personally came the above-named, Mark Gerard Duer, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Mary N. Boyer
Notary Public

My Commission Expires:

My Commission Expires
April 24, 2010

Doyle Clyde Lewis
Doyle Clyde Lewis

3/30/2004
Date

Witnessed by:

Name:

[Signature]

Date:

3/30/04

Signature of witness

Name:

Amanda McClain

Printed name of witness

Date:

3/30/04

Signature of witness

Name:

Calvinia Hitchens

Printed name of witness

STATE OF SC

ss):

COUNTY OF Greenville

This 30th day of March, 2004, before me personally came the above-named, Doyle Clyde Lewis, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Mary H. Byers
Notary Public

My Commission Expires:

My Commission Expires
April 24, 2010